



Make Lightning

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TOOLS:

- [Lighter or heatgun \(1\)](#)
- [Soldering iron \(1\)](#)
- [Wire strippers \(1\)](#)



PARTS:

- [120v-9v transformer \(1\)](#)
- [Wire \(1\)](#)
- [Enclosure \(1\)](#)
- [terminal post \(2\)](#)
- [Solder \(1\)](#)

SUMMARY

I have been fascinated with arcs and sparks, bangs and pops ever since I created an arc with a busted power adaptor.

One day I thought about making a proper "big boys' toy" that would be safer and more convenient.

Step 1 — Make Lightning



- Mains voltage is extremely dangerous and should not be used in this project. Even though the voltage from this project is high enough to arc, it is not deadly.

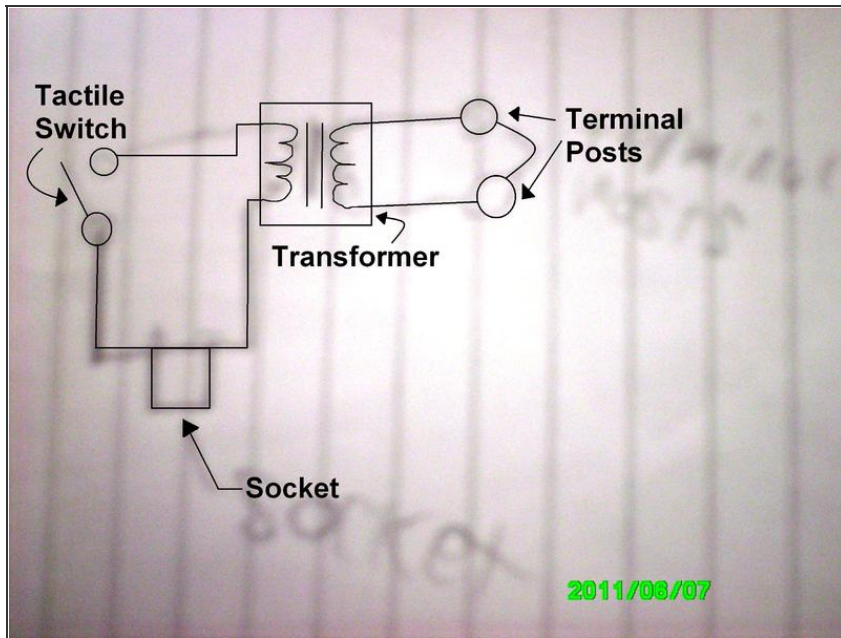



Step 2



- First you need:
- 120v or 240v to 9v power adaptor
- Enclosure
- Wire
- Terminal posts
- Not shown: tactile switch
- Connector socket

Step 3



- Solder the components according to the diagram.
- Don't forget to reverse the transformer so that you put power into the output terminals. 

Step 4



- Now, put the electronics in the enclosure and make a foot switch.

Step 5



- Finally, put 12v into the input socket and Presto! You have your own high voltage power supply that can be connected to a Jacob's Ladder (basically, put two lengths of coat hanger wire close enough for the arc to jump across at different positions). Have fun!

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